08CY05920

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

K. Blackburn et al.

Serial Number:

09/745,170

Filed:

December 20, 2000

Examiner:

A. Woodward

Art Unit:

1711

Title:

Flame Retardant Carbonate Polymer Material

Attn: Office of Petitions Commissioner of Patents P.O. Box 1450

Alexandria, VA 22313-1450

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT UNINTENTIONALLY ABANDONED UNDER 37 C.F.R. 1.137(b)

Dear Sir:

This is DUPLICATE copy of the Petition to Revive an Application, the Petition for Extension of Time, and the Amendment and Response to Restriction Requirement that was filed by Facsimile Transmission to Fax No. 703-872-9306 on March 3, 2004 and the first DUPLICATE copy faxed on February 11, 2005. Also enclosed is a copy of the Auto-Reply Facsimile Transmission showing that the documents were received on March 3, 2004. Please consider the Petitions and the Amendment.

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Date: Ma	rich 1	. 2005

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08CY05920

Respectfully submitted: K. BLACKBURN ET AL.

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Michelle Bugbee ()
Attorney for Applicants
Registration No. 42,370
Telephone No. (413) 448-7208

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No. Pages: 18
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Michelle Bugbee

2004

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08CY05920

Respectfully submitted: K. BLACKBURN ET AL.

Customer No. 51401 GENERAL ELECTRIC CO One Plastics Avenue Pittsfield, MA 01201

2005 ر

Attorney for Applicant Registration No. 42,370

Telephone No. (413) 448-7208

PTC/SB/122 (08-04)
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Application Number	09/745,170
Filing Date	December 20, 2000
First Named Inventor	K. Blackburn
Art Unit	1711
Examiner Name	A. Woodward
Attorney Docket Number	08CY05920

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Typed or Printed Michelle Bugbee	your			
Name	Name Telephone			
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple				
forms if more than one signature is required, see below.				
Total of 1forms are submitted.				

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 infinites to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Oppartment of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	TRANSMISSION BY FACS	MILE (37 CER 1 8)	Docket No.	
Applicant(s): Blackburn		SIVILLE (37 CTR 1.0)	08CY-5920	
Serial No. 09/745,170	Filing Date 12/20/00	Examiner Ana Lucrecia Woodward	Group Art Unit 1711	
Invention: FLAME RET	FARDANT CARBONATE FOLY	MER COMPOSITION		
		,		
I hereby certify that this	Pet for Ext of Time (1	pg), Pet. to Revive an Appln (3 pg	(5), Amend. (9 pgs)	
	nitted to the United States Patent	(Identify type of correspondence) and Trademark Office (Fax. No.	703-872-9306	
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On March 3, (Date)				
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		Laura J. Nol	2n	
(Typed or Printed Name of Person Signing Certificate)				
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Petition For Revival Of An Application For Patent Abandoned Unintentionally Under 37 CFR 1.137(b) (Large Entity) Docket No. 08CY05920				
In Re Application Of: Blackburn et al.				
Serial No. Filling Date	Examiner	Group Art Unit		
09/745,170 12/20/00	Ana Lucrecia Woodward	1711		
invention: FLAME RETARDANT CARBONATE POLY	MER COMPOSITION			
СОМMISSIONE P.O. В Alexandria, V	ice of Petitions R FOR PATENTS ox 1450 A 22313-1450			
NOTE: If information or assistance is needed in Information at (703) 305-9282.		!		
The above-identified application became abandoned for action by the Patent and Trademark Office. The data period set for reply in the Office notice or action plus any	of abandonment is the day afte	or the expiration date of the		
APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION				
NOTE: A grantable petition requires the following items: (1) Petition fee; (2) Reply and/or issue fee; (3) Terminal disclaimer with disclaimer fee-required for all utility and plant applications filed before June 8, 1995; and for all design applications; and (4) Statement that the entire delay was unintentional.				
1. A proposed reply to the above-identified notice of	r action:			
☑ is enclosed. ☐ was filed on _	=			
The proposed reply is in the form of: Amendment and Response to Restriction Requirement				
2. The issue fee:				
is enclosed.				
3. ⊠ The abandoned application was a:				
☐ design application. ☑ utility application. ☐ plant application.				
4. A terminal disclaimer (and fee) disclaiming a period equivalent to the period of abandonment is enclosed.				
5. 🗵 Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.				
[Page	1 of 3]	PSSLARGE/REV04		

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Petition For Revi Unintentions	ival Of An Application For Pa ally Under 37 CFR 1.137(b) (L	tent Abandoned arge Entity)	1	ket No. 705920	
In Re Application Of: Bi	In Re Application Of: Blackburn et al.				
Serial No.	Filing Date	Examiner	Gr	oup Art Unit	
09/745,170	12/20/00	Ana Lucrecia Woodward		1711	
Invention: FLAME RE	FARDANT CARBONATE POLY	MER COMPOSITION			
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6. 🗵 Petition fee unde	er 37 CFR 1,17(m) in the amoun	it of:	÷	\$1,330.00	
_	nent in the amount of:				
8. 🗀 Fee for extensio	n of time to respond to Office A	ction in the amount of:			
9. Issue fee in the amount of:					
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_	11. Terminal disclaimer fee in the amount of:				
12, 🔲					
		Total f	ees enclosed:	\$1,330.00	
The fee of \$1,330 is to be paid as follows: ☐ A check in the amount of the fee is enclosed. ☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account No. 07-0862					
<u> </u>	[Page	2 of 3]			



	- Los to to lighting For	Potent Abandoned	Docket No.
Petition For Revi	ival Of An Application For i lly Under 37 CFR 1.137(b)	(Large Entity)	08CY05920
In Re Application Of: Bi			
Serial No.	Filing Date	Examiner	Group Art Unit
09/745,170	12/20/00	Ana Lucrecia Woodward	1711
Invention: FLAME RE	TARDANT CARBONATE PO	LYMER COMPOSITION	
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The entire delay i	in filing the required reply from	the due date for the required re	ply until the filing of a grantable
petition under 37 CFR 1.1	(37(b) was unintentional.		
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	ignature	Dated: March 3, 2004	•
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Leah M. Reimer Reg. No. 39,341			
Customer No. 23,413		on March 3, 20	document and fee is being deposited with the U.S. Postel Service as
(860) 286-2929		Mail Stop Petition	der 37 C.F.R. 1.8 and is addressed to the n. Commissioner for Patents, P.O. Box
}		1450, Alexandria,	VA 22313-1450.
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[Page 3 of 3]

PETITION FOR EX	TENSION OF TIME UNI (Large Entity)	ER 37 CFR 1	1.136(a)	Docket No. 08CY05920	
In Re Application Of: Bla	ickbura et al.				
Serial No. 09/745,170	Filing Date 12/20/00	i	kaminer cia Woodward	Group Art Unit 1711	
Invention: FLAME RET	ARDANT CARBONATE POL	YMER COMPO	SITION		
	TO THE COMME	TOURS FOR BU	ATPAITO.		
of <u>03/22/0</u> Date	The requested extension is as follows (check time period desired):				
from:	04/22/02 Date	until:	09/22/02 Date	 	
The fee for the extension of time is \$2,010 and is to be paid as follows: ☐ A check in the amount of the fee is enclosed. ☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Daposit Account No. ☑ If an additional extension of time is required, please consider this a petition therefor and charge any additional fees which may be required to Deposit Account No. 07-0862					
Dated: March 3, 2004					
Leab M. Reimer Reg. No. 39,341 Customer No. 23,413 (860) 286-2929		1	Ovareb 3, 2004 first class mail under 37 C Commissioner for Patents 22313-1450. Signature of Parent Laura J. No	nent and fee is being deposited with the U.S. Postal Service as J.F.R. 1.8 and is addressed to the i, P.O. Box 1450, Alexandria, VA Mailing Correspondence plan (by facsimile)	



08CY5920-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:	Blackburn et al.)
SERIAL NO.:	09/745,170) Group Art Unit: 1711
FILED:	12/20/00)) Before the Examiner:) Ana L. Woodward
FOR:	FLAME RETARDANT CARBONATE POLYMER COMPOSITION)))

Via Facsimile (703) 872-9306 Assistant Commissioner for Patents P.O. Box 1450 Washington, D.C. 20231-1450

AMENDMENT AND RESPONSE TO RESTRICTION REQUIREMENT PURSUANT TO 35 U.S.C. §121

Sir:

This is in response to the Restriction Requirement dated March 22, 2002.

IN THE CLAIMS:

- 1. (currently amended) A thermoplastic resin composition, comprising:
 - (a) 50 to 95 pbw of a thermoplastic resin component comprising an aromatic polycarbonate resin a thermoplastic resin;
 - (b) 0 to 15 pbw of an organophosphorus flame retardant compound; and
 - (cb) 0.10 to 20 pbw of a flame-retarding amount of a polyimide compound, each based on 100 pbw of the thermoplastic resin component, organophosphorus compound, and polyimide compound.
- (currently amended) The composition of claim 1 comprising 1 to 15 pbw of the
 organophosphorus flame retardant compound wherein the thermoplestic resin comprises
 a polyoarbonate.
- (currently amended) The composition of claim 2 wherein the thermoplastic resin component further comprises a <u>vinyl aromatic</u> graft copolymer.
- 4. (currently amended) The composition of claim [[1]]2 wherein the composition additionally comprises a organophosphorus flame retardant compound having has the formula:

wherein R_6 , R_7 , R_8 and R_9 are each independently aryl, halo aryl or (C_1-C_6) alkyl substituted aryl, X is arylene, halo arylene or (C_1-C_6) alkyl substituted arylene, a, b, c and d are each independently 0 or 1, and n is an integer from 0 to 5, more preferably from 1 to 5.

5. (canceled)

- (currently amended) The composition of claim [[5]]4 wherein the thermoplastic resin composition further comprises a vinyl aromatic graft copolymer.
- 7. (currently amended) The composition of claim 6 1 wherein the polyimide is a polyetherimide and has the formula: structural units of the formula:

wherein the divalent T moiety bridges the 3,3', 3,4', 4,3', or 4,4' positions of the aryl rings of the respective aryl imide moieties; T is -O- or a group of the formula -O-Z-O-; Z is a divalent radical selected from the group consisting of formulae:

wherein X is a member selected from the group consisting of divalent radicals of the formulae:

_

wherein y is an integer from 1 to about 5, and q is 0 or 1; R¹⁰ is a divalent organic radical selected from the group consisting of:

- (a) aromatic hydrocarbon radicals having from 6 to about 20 carbon atoms and halogenated derivatives thereof,
- (b) alkylene radicals having from 2 to about 20 carbon atoms,
- (c) cycloalkylene radicals having from 3 to about 20 carbon atoms, and
 divalent radicals of the general formula:

$$-\bigcirc$$

where Q is a member selected from the group consisting of formulae:

$$-c_{\gamma}H_{2\gamma}-$$
, $-c_{\gamma}-$, $-c_{\gamma}-$, $-c_{\gamma}-$ and $-s_{\gamma}-$

where y' is an integer from about 1 to about 5.

- (original) The composition of claim 7 wherein the polycarbonate is a polycarbonate comprising bisphenol-A.
- 9. (original) The composition of claim 8 wherein T is derived from bisphenol-A.
- 10. (original) The composition of claim 9 wherein R¹⁰ is

- 11. (new) A thermoplastic resin composition, comprising:
 - (a) 50 to 95 pbw of a thermoplastic resin component comprising an aromatic polycarbonate resin and a vinyl aromatic graft copolymer;
 - (b) 1 to 15 pbw of an organophosphorus flame retardant compound; and
 - (c) 0.10 to 20 pbw of a flame-retarding amount of a polyimide compound, each based on 100 pbw of the thermoplastic resin component, organophosphorus compound, and polyimide compound.
- 12. (new) The composition of claim 11 wherein the thermoplastic resin component comprises, based on 100 pbw of the resin component, 30 to 95 pbw of the polycarbonate, 1 to 70 pbw of the vinyl aromatic graft copolymer, and optionally an additional thermoplastic resin.
- 13. (new) The composition of claim 11 wherein the organophosphorus flame retardant compound has the formula:

wherein R_6 , R_7 , R_8 and R_9 are each independently aryl, halo aryl or (C_1-C_6) alkyl substituted aryl, X is arylene, halo arylene or (C_1-C_6) alkyl substituted arylene, a, b, c and d are each independently 0 or 1, and n is an integer from 0 to 5, more preferably from 1 to 5.

14. (new) The composition of claim 11 wherein the vinyl aromatic graft copolymer is an ABS copolymer.

15. (new) The composition of claim 11 wherein the polyimide is a polyetherimide and has structural units of the formula:

wherein the divalent T moiety bridges the 3,3', 3,4', 4,3', or 4,4' positions of the aryl rings of the respective aryl imide moieties; T is -O- or a group of the formula -O-Z-O-; Z is a divalent radical selected from the group consisting of formulae:

wherein X is a member selected from the group consisting of divalent radicals of the formulae:

wherein y is an integer from 1 to about 5, and q is 0 or 1; R^{10} is a divalent organic radical selected from the group consisting of:

- (a) aromatic hydrocarbon radicals having from 6 to about 20 carbon atoms and halogenated derivatives thereof,
- (b) alkylene radicals having from 2 to about 20 carbon atoms,
- (c) cycloalkylene radicals having from 3 to about 20 carbon atoms, and

divalent radicals of the general formula:

where O is a member selected from the group consisting of formulae:

where y' is an integer from about 1 to about 5.

- 16. (new) The composition of claim 15 wherein the polycarbonate is a polycarbonate comprising bisphenol-A.
- 17. (new) The composition of claim 16 wherein T is derived from bisphenol-A.
- 18. (new) A method for the manufacture a flame retardant thermoplastic resin composition, comprising combining
 - (a) 50 to 95 pbw of a thermoplastic resin component comprising an aromatic polycarbonate resin and a vinyl aromatic graft copolymer;
 - (b) 1 to 15 pbw of an organophosphorus flame retardant compound; and
- (c) 0.10 to 20 pbw of a flame-retarding amount of a polyimide compound, each based on 100 pbw of the thermoplastic resin component, organophosphorus compound, and polyimide compound.



Claims 1-10 are pending in the present application. Claims 1-2, 4, and 6-7 have been amended, and claims 3 and 5 have been cancelled, leaving claims 1-2, 4, and 6-10 pending upon entry of the present amendment. No new matter has been introduced by these amendments.

Antecedent basis for the amendments to claim 1 is found at least in the Summary of the Invention on page 1, in the first paragraph of the Detailed Description of the Invention on page 2, and in the 3rd and 4th full paragraphs on page 7.

Antecedent basis for the amendments to claim 2 is found at least in the first paragraph of the Detailed Description of the Invention on page 2.

Antecedent basis for the amendment to claims 3 and 6 is found at least in the 3rd full paragraph on page 7.

The amendments to claims 4 and 7 have been made for clarity, in particular to conform the claims to the other claim amendments and to better describe the invention.

New Claims

New claims 11-18 have been presented.

Antecedent basis for new claims 11 and 12 is at least in originally claim 1, the Summary of the Invention on page 1, in the first paragraph of the Detailed Description of the Invention on page 2, and in the 3rd and 4th full paragraphs on page 7.

Antecedent basis for new claims 13 and 15-17 is found at least in claims 1-10 as originally presented.

Antecedent basis for new claim 14 is found at least in Table 1 on page 23.

Antecedent basis for new claim 18 is found at least in the Summary of the Invention on pages 1-2, in the first paragraph of the Detailed Description of the Invention on page 2, and in the 3rd and 4th full paragraphs on page 7.

Restriction Requirement

The Examiner has restricted the original claims into four groups, based on the number of components in the claims. Applicants hereby elect to prosecute Group IV, drawn to a composition containing four components. It is believed that Group IV contains amended claims 6-10 and new claims 11-18.

Notwithstanding the foregoing election, Applicants respectfully traverse the rejection, on the grounds that the additional searching required for all groups is not unduly burdensome.

This election is being made without prejudice to Applicants' rights with respect to the remaining claims, including the right to file divisional application(s) thereon.

Election Requirement

The Examiner has further requested election of an ultimate species of component (a) of original claim 1. Component (a) has now been amended to recite the presence of polycarbonate. It is believed that this amendment satisfies the election requirement.

If there are any charges with respect to this Restriction Requirement, or otherwise, please charge them to Deposit Account No. 07-0862

Respectfully submitted,

CANTOR COLBURN LLP

Leah M. Reimer Reg. No. 39,341

Date:

March 3, 2004

Customer No. 23,413

Telephone:

(860) 286-2929

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